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U.S. Application No. 10/631,980

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## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims

- 1. (Currently Amended) A resorbable thin adhesion-inhibition membrane comprising a substantially uniform composition eomprising of a polymeric material, the polymeric material being capable of resorbing into the a mammalian body within a period less than about 24 months from an initial implantation of the adhesion-inhibition membrane into the mammalian body, the polymeric material having a biased molecular orientation in the membrane that is biased to at least one axis and having an anti-inflammatory characteristic with a viscosity property that is greater than about 1 g/dL, the membrane having a first substantially-smooth surface and a second anti-inflammatory characteristic comprising a first substantially-smooth non-porous surface, and the membrane being non-porous, and the membrane having an opposing second surface and a thickness of about 0.001 mm to about 0.300 mm as measured between the first substantially-smooth non-porous surface and the opposing second substantially-smooth surface.
- (Currently Amended) The membrane of claim 1, wherein the polymeric material comprises a substantially amorphous polymer.
- (Currently Amended) The membrane of claim 1 wherein the polymeric material comprises a
  polylactide.
- (Currently Amended) The membrane of claim + 3 wherein the polylactide comprises a copolymer of L-lactide and D,L-lactide.

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 (Currently Amended) The membrane of claim 1 wherein the polymeric material comprises a copolymer of lactide and epsilon caprolactone.

- (Currently Amended) The membrane of claim 3 1 wherein the molecular orientation of a polymer of the polymeric material is biased toward one axis.
- (Currently Amended) The membrane of claim 3 1 wherein the molecular orientation of a polymer of the polymeric material is biased toward two axes.
- 8. (Currently Amended) The membrane of claim 3 1 being about 0.010 mm to about 0.100 mm thick
- 9. (Currently Amended) The membrane of claim 3  $\underline{1}$  being about 0.015 mm to about 0.025 mm thick
- 10. (Currently Amended) The membrane of claim 3 1 being about 0.020 mm thick.
- 11. (Currently Amended) The membrane of claim 3 1 wherein the membrane has a glass transition temperature, and a thickness of the membrane increases by at least 5 times when the membrane is brought to its glass transition temperature.
- 12. (Currently Amended) The membrane of claim 3 1 wherein the membrane has a glass transition temperature, and a thickness of the membrane increases by at least 10 times when the membrane is brought to its glass transition temperature.

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13. (Currently Amended) The membrane of claim 3 1 being impregnated with an additive selected from the group consisting of a chemotactic substance for influencing cell-migration, an inhibitory substance for influencing cell-migration, a mitogenic growth factor for influencing

cell proliferation and a growth factor for influencing cell differentiation.

14. (Currently Amended) The membrane of claim  $3 \underline{1}$  being contained in a sealed sterile

packaging.

15. (Currently Amended) The membrane of claim 3 1 further having at least one thick portion,

each thick portion has a length equal to or shorter than the longest length of the membrane, a width greater than about 0.5 mm, and a thickness greater than about 2 times a thickness of a

central area of the membrane.

16. (Currently Amended) The membrane of claim 15 wherein the thick portion protrudes from

both of the two substantially smooth surfaces and forms at least a segment of an edge of the

membrane.

17. (Original) The membrane of claim 15 wherein a first thick portion forms at least a segment

of a first edge of the membrane, and a second thick portion forms at least a segment of a second

edge of the membrane.

18. (Original) The membrane of claim 15 wherein a thickness of the membrane increases more

than 2 times when the membrane is brought to its glass transition temperature

19. (Original) The membrane of claim 17 further comprising a plurality of holes disposed along

the thick portion.

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20. (Currently Amended) The membrane of claim 3 1 further comprising a plurality of holes disposed along an edge of the membrane.

 (Currently Amended) The membrane of claim 3 1 having a viscosity property greater than about 2 g/dL.

- 22. (Currently Amended) The membrane of claim 3 1 having a viscosity property of about 3 g/dL.
- 23. (Currently Amended) The membrane of claim 3 1 having a non-uniform shrinking characteristic.
- 24. (Currently Amended) The membrane of claim 3 1 having a directional shrinking characteristic.
- 25. (Currently Amended) A resorbable thin adhesion-inhibition membrane comprising a substantially uniform composition of a polymeric material extruded into a membrane, the adhesion-inhibition membrane being capable of resorbing into the a mammalian body within a period less than about 24 months from an initial implantation of the membrane into the mammalian body, the membrane having an anti-inflammatory characteristic with a viscosity property greater than about 1 g/dL, and further having a first substantially-smooth surface and a second the anti-inflammatory characteristic comprising a substantially-smooth anti-inflammatory surface and the membrane being about 0.010 mm to about 0.030 mm thick as measured between the first substantially-smooth anti-inflammatory surface and the a second substantially-smooth opposing surface of the membrane.
- 26. (Currently Amended) The membrane of claim 25, wherein the polymeric material comprises a substantially amorphous polymer.

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27. (Original) The membrane of claim 25 further comprising at least one thick portion, the at

least one thick portion having a length equal to or shorter than a longest length of the membrane,

a width greater than about 0.5 mm, and a thickness greater than about 2 times the thickness of

the membrane at a region other than the at least one thick portion.

28. (Currently Amended) The membrane of claim 27 wherein the thick portion protrudes from

both of the two substantially-smooth surfaces and forms at least a segment of an edge of the

membrane.

29. (Original) The membrane of claim 27 wherein a first thick portion forms at least a segment

of a first edge of the membrane, and a second thick portion forms at least a segment of a second

edge of the membrane.

30. (Original) The membrane of claim 27 wherein the thick portion is effective to provide

rigidity to the membrane.

31. (Original) The membrane of claim 27 further comprising a plurality of holes disposed along

the thick portion.

32. (Original) The membrane of claim 25 wherein the membrane is non-porous and comprises

polylactide.

33-52. Cancelled.

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- 53. (Currently Amended) A resorbable thin anti-adhesive membrane comprising a substantially uniform composition emprising of a polymeric material, the polymeric material being capable of resorbing into the a mammalian body within a period less than about 24 months from an initial implantation of the anti-adhesive membrane into the mammalian body, the polymeric material comprising a polylactide and having a biased molecular orientation in the membrane that is biased to at least one axis and having a viscosity property that is greater than about 1 g/dL, the membrane having a first substantially-smooth surface and a second at least one substantially-smooth-surface, and the membrane anti-adhesive surface and being non-porous, and the membrane also having a thickness of about 0.001 mm to about 0.300 mm as measured between the first substantially-smooth anti-adhesive surface and the second substantially-smooth an opposing surface of the membrane, wherein the membrane has a glass transition temperature[[,]] and a thickness of the membrane increases by at least 5 times when the membrane is brought to its glass transition temperature.
- 54. (Currently Amended) A resorbable thin anti-adhesive membrane comprising a substantially uniform composition emprising a polymer, the polymer being of a polymeric material capable of resorbing into the a mammalian body within a period less than about 24 months from an initial implantation of the anti-adhesive membrane into the mammalian body, the polymeric material comprising a polylactide and having a biased molecular orientation in the membrane that is biased to at least one axis and having a viscosity property that is greater than about 1 g/dL, the membrane having a first at least one substantially-smooth anti-adhesive surface and a second substantially-smooth-surface, and the membrane being non-porous, and the membrane further having a thickness of about 0.001 mm to about 0.300 mm as measured between the first substantially-smooth anti-adhesive surface and the second substantially-smooth an opposing surface of the membrane, wherein the membrane has a glass transition temperature[[,]] and a thickness of the membrane increases by at least 10 times when the membrane is brought to its glass transition temperature.

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55. (Currently Amended) A resorbable thin anti-adhesive membrane comprising a substantially uniform composition eomprising a polymer, the polymer being of a polymeric material capable of resorbing into the a\_mammalian body within a period less than about 24 months from an initial implantation of the anti-adhesive membrane into the mammalian body, the polymeric material comprising a polylactide and having a biased molecular orientation in the membrane that is biased to at least one axis and having a viscosity property that is greater than about 1 g/dL, the membrane having a first at least one substantially-smooth anti-adhesive surface and a second substantially-smooth surface, and the membrane being non-porous, and the membrane also having a thickness of about 0.001 mm to about 0.300 mm as measured between the first substantially-smooth anti-adhesive surface and the second substantially-smooth an opposing surface of the membrane, the membrane further having at least one thick portion, each thick portion having a length equal to or shorter than the longest length of the membrane, a width greater than about 0.5 mm, and a thickness greater than about 2 times a thickness of a central area of the membrane, wherein a thickness of the membrane increases more than 2 times when the membrane is brought to its glass transition temperature.